



The present invention, as set forth in claim 1, employs a structure in which the material forming the concave mirrors is different from the material forming the substrate. Consider that a material such as aluminum which is lightweight and easily worked is suitable for the material of the substrate (page 3, last paragraph of the Specification), and that a heat-resistant glass such as Pyrex glass is suitable for material of the concave mirrors (page 4, first paragraph of the Specification). Under such restrictions of different materials for the mirrors and substrate, the invention as set forth in claim 1 employs a structure in which the coefficients of linear expansion of both of the concave mirrors are approximately the same as the coefficient of linear expansion of a material forming the substrate as recited in presently pending claim 1.

The problem pointed out in the description on page 3, fourth paragraph to page 5, fourth paragraph of the Specification of the present application is unique to monochromators in which a material forming the concave mirrors is different from a material forming the substrate. Applicant's monochromator solves this problem by choosing different material for the mirrors and substrate but with the different materials having substantially the same coefficient of linear expansion. therefore, the device is made more accurate with the added advantage of structural integrity due to the different materials.

In contrast, Unal merely discloses a structure in which the elements 2 to 6 are integrated with the base plate 1 as shown in Fig. 1 (column 3, last three lines). Specifically, Unal describes "The base plate (1) together with the elements (2) and (6) fixedly arranged thereon form the microstructured single-piece shaped part." [emphasis added] Therefore, the material forming the elements 2 to 6 is the same as the material forming the base plate. Unal does not recognize the problem sought to be solved by the present invention and therefore does not offer the novel solution as set forth in claim 1.

Accordingly, claim 1 and its dependent claims 5 and 9 patentably distinguish over Unal and should be allowed.

6. Claims 12, 13 and 16 are rejected over Unal in view of Rajic, et al., U.S. 5,754,290. Claims 13 and 16 have been cancelled without prejudice. Claim 12 depends from claim 1 and recites that the mirrors are of glass. Rajic merely discloses a spectrometer which employs an

